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DATA CENTER OPERATIONS BRANCH

**NDS OPERATIONS PROCEDURE MANUAL
NO. P-I004**

**APPLICATIONS SOFTWARE
13 April 1983**

INSTALLATIONS DATA FILE EXCHANGE

**SYMBOLIC TITLE: IDFEX
PROGRAMMER:**

25X1

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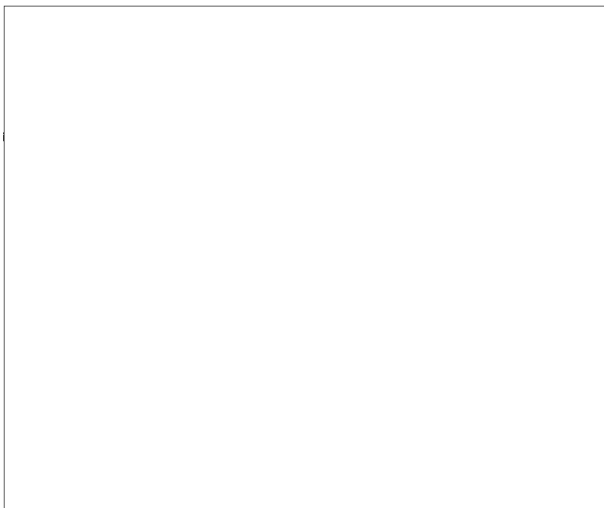
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Program IDFEX

Date 12 June 1981

APPROVALS

This operations manual has been reviewed and approved by the following persons:



25X1

4 Feb 82
(date)

2/5/82
(date)

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Date 12 June 1981

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TOP SECRETProgram IDFEXDate 12 June 1981**SUMMARY**

The IDFEX program was written to replace the IDF Exchange programs on the Univac 494 computer. This program will extract all the updated data (transactions) to the IDF, sort the data, eliminate all the duplications, and create a tape. The output data format and record types are in the document Installations Data File Magnetic Tape Format, April 1981. This information is sent to other users in the Intelligence Community. (Currently CIA/OSR and DIA/MIA are our only users). 25X1

There is a file called XAU*IDFHIS-FILE which contains a copy of all the compacted TIF records. The TIF-Compaction program, which is run five times a day prior to INTERMAIN, has code in it to transfer the compacted TIF records to the XAU*IDFHIS-FILE. The XAU*IDFHIS-FILE is sized to hold 20,000 records. The code in the TIF-Compaction checks to see how full the file is and begins putting out a message as to when to run the IDFHIS/IDFEX program. When the IDFHIS/IDFEX program is run, the XAU*IDFHIS-FILE is sorted on MRN, RECORD-TYPE and DATABASE KEY and all duplicate entries are deleted. The data is then written to tape. This tape is copied on the requestor tape and sent to the requestor.

IDFEX provides the capability for the user to specify what type of data is to be extracted. 'MI' and 'KH', 'Aircraft' or both types of data may be selected by the user. There are eight IDF records that the user can specify: TGT-HDR, TGT-COLL, TGT-GEN-REF, TGT-STA-DES, TGT-DEF-SEC, TGT-OB, TGT-PHOT, and TGT-PRFL. These must be specified.

This program can be restarted. Once it has successfully terminated, pointers in the XAU*IDFHIS-FILE are reset to the beginning of the file.

The IDFEX program is coded in ASCII COBOL and uses DMS for file processing.

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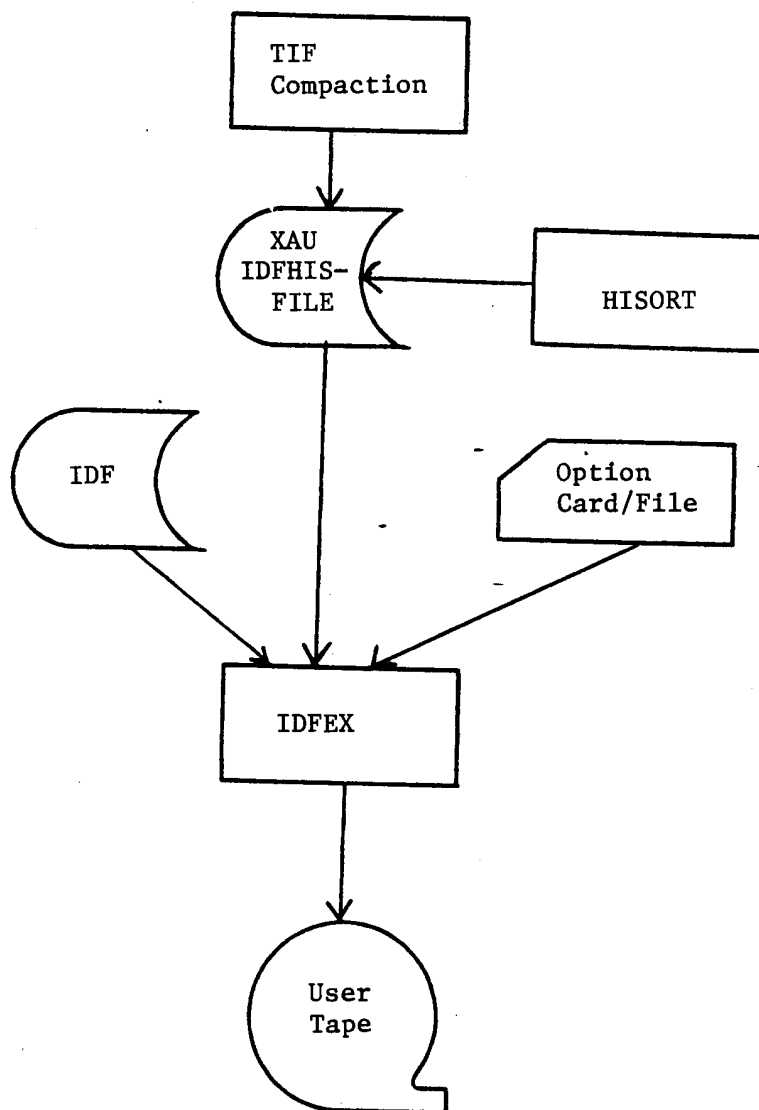
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OPERATIONAL FLOW CHART



'NDS 13 (SYS) IDFEX'

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COMPILE-MAP RUNSTREAM

```
1: @RUN IDFEX,S33741069/MARYAD,XAU
2: @SYM,D PRINTS
3: @DELETE,C XAU*C-IDFEX.
4: @ASG,UP XAU*C-IDFEX.
5: @SYM,D PRINTS
6: @ADD XAU*W$RUN.IDFEX/USES
7: @ERS TPF$.
8: @USE C-IDFEX,XAU*C-IDFEX.
9: @BRKPT PRINTS/C-IDFEX
10: @ASG,AX SOURCEFILE.
11: @COPY,S SOURCEFILE.IDFEX,TPF$.
12: @FREE SOURCEFILE.
13: @ASG,A NDS*PRODSCHMA.
14: @ADMLP,ZE TPF$.IDFEX,TPF$.IDFEX
15: @ACOB,ES TPF$.IDFEX,TPF$.IDFEX
16: @ASG,AX RELFILE.
17: @COPY,R TPF$,RELFIL.
18: @PACK RELFILE.
19: @FREE RELFILE.
20: @BRKPT PRINTS
21: @SYM,D PRINTS
22: @FIN
```

END ONSITE PRINTOUT ON JULY 29, 1981 AT 15:05:17
XAU*P\$RUN(1).IDFEX/COMP-ALL(1)

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MAGNETIC TAPE OUTPUT

Contents and Description of Tape Data

Unit

Standard Tape Label: 'NDS 13 (SYS) IDFEX'
(to be inserted by programmer)

Label Block File Name:

Mode: PASC

Code:

Record and Block Size: 240 characters/record
50 records/block

File Sequence: Sequential

Source Component:

Disposition:

Retention Period:

Restrictions:

Quantity:

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OUTPUT TAPE FORMAT

See the Installations Data File-Magnetic Tape Format, April 1981,



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NORMAL RUN INSTRUCTIONS

Initiation: ST XAU*P\$RUN.IDFEX/XQT for Option J.

Monitor:

<u>Message</u>	<u>Cause</u>	<u>Operator Action</u>
Operator, enter output real number of this run EX*01234	Program requires tape number	Enter tape number (See next page for example of console message)
_____ were input to the sort _____ were output to the sort _____ were duplicate records and not processed' _____ records put in the _____ IDFHISTEX from the sort		
Sort is not complete	Statistics from Sort Routine of the IDFHISTEX Task	None
Task is not complete	Statistics from the IDFHISTEX Program	None

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TOP SECRETProgram IDFEXDate 12 June 1981**ABNORMAL RUN INSTRUCTIONS****Messages:**

<u>Message</u>	<u>Cause</u>	<u>Operator Action</u>
No control card in run deck for this run	User did not insert a control card in runstream	Insert the control card following the @XQT statement, restart runstream
Invalid range on input card	End-range was greater than beginning range	Correct range on control card and restart runstream
Range on input card not numeric	Range on input card not a numeric ending	Correct range on control card and restart runstream
EOF reached in IDHISTEX file	Abnormal end of file	Notify CSD
Total records = _____		
Fatal data base error Record was _____ Key was _____ Error-Status = _____	A fatal data base error	Notify CSD
Data base key for _____ was bad Error status = _____ Min was _____ Record-Type = _____ Program continues	Invalid data base key	Notify CSD
Error on impact	DMS error occurred while imparting	Restart run, if error occurs again notify CSD
Error on open for retrieval	DMS error occurred while opening	Restart run, if error occurs again notify CSD
No IDFHISTEX Tape	Program error trying to read write to output tape	Notify CSD
Reel number was not a numeric entry	Operator entered an illegal output reel number	Enter correctly
Pls Reenter		

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ABNORMAL RUN INSTRUCTIONS (Continued)

<u>MESSAGE</u>	<u>CAUSE</u>	<u>OPERATOR ACTION</u>
Reel number was spaces Please Reenter	Operator entered spaces or zeros for output reel number	Enter correctly
Unable to locate a TGT-HDR Record with min _____	Program error	Notify CSD
Invalid key on Read	Program error	Notify CSD
Invalid key on Write	Program error	Notify CSD
Error sort counts not equal Sort in = _____ Sort out = _____	Program error	Notify CSD
Illegal data base key for _____	Data base error	Notify CSD; save printed output for CSD rep.
Error Status = _____ MRN number was _____ Record type was _____ Processing continues _____		

Error/Fault:

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